3. The sensor-equipped display device of claim 2, wherein each of the first detection line and the second detection line is shaped in a waveform.

4. The sensor-equipped display device of claim 1, wherein the broadened portion includes mesh-shaped metal wires.

5. The sensor-equipped display device of claim 1, wherein the broadened portion includes a strip-shaped metal film.

6. The sensor-equipped display device of claim 5, wherein the metal film is remote from a boundary between the display area and the non-display area.

7. The sensor-equipped display device of claim 1, further comprising:

an insular dummy electrode between the broadened portion and the lead line.

8. The sensor-equipped display device of claim 1, further comprising:

a plate-like block electrode making connection between the broadened portion and the lead line.

9. The sensor-equipped display device of claim 1, wherein the broadened portion of each of the detection electrodes disposed to be adjacent to each other forms a surrounding portion arranged side by side with the non-display area.

10. A sensor device opposed to a display device including a display area for displaying an image and a non-display area outside the display area,

the sensor device comprising:

a sensor driving electrode opposed to the display area;

detection electrodes each including a body portion opposed to the sensor driving electrode and a broadened portion connected to the body portion and being wider than the body portion;

a lead line opposed to the non-display area and electrically connected to the broadened portion; and

a driving module which supplies a sensor drive signal to the sensor driving electrode, allows the sensor drive signal from the sensor driving electrode to be detected as a detection signal by each of the detection electrodes, and reads variation of the detection signal via the lead line,

the broadened portion being opposed to the non-display area without being opposed to the display area.

11. The sensor device of claim 10, wherein

the detection electrode comprises a metallic first detection line disposed on the broadened portion, and a metallic second detection line longer than the first detection line and extending over the broadened portion and the body portion.

12. The sensor device of claim 11, wherein each of the first detection line and the second detection line is shaped in a waveform.

13. The sensor device of claim 10, wherein the broadened portion includes mesh-shaped metal wires.

14. The sensor device of claim 10, wherein the broadened portion includes a strip-shaped metal film.

15. The sensor device of claim 14, wherein the metal film is remote from a boundary between the display area and the non-display area.

16. The sensor device of claim 10, further comprising:

an insular dummy electrode between the broadened portion and the lead line.

17. The sensor device of claim 10, further comprising:

a plate-like block electrode making connection between the broadened portion and the lead line.

18. The sensor device of claim 10, wherein the broadened portion of each of the detection electrodes disposed to be adjacent to each other forms a surrounding portion arranged side by side with the non-display area.

19. A sensor-equipped display device, comprising:

a sensor driving electrode disposed in an outermost periphery in a display area for displaying an image;

detection electrodes each including a body portion opposed to the sensor driving electrode in the display area, and a broadened portion connected to the body portion and being wider than the body portion; and

a lead line disposed in a non-display area outside the display area and electrically connected to the broadened portion,

the broadened portion being disposed in the non-display area without being opposed to the sensor driving electrode.

20. A sensor device disposed to be overlaid on a display device including a display area for displaying an image and a non-display area outside the display area,

the sensor device comprising:

a sensor driving electrode opposed to a position in an outermost periphery in the display area;

detection electrodes each including a body portion opposed to the sensor driving electrode in the display area, and a broadened portion connected to the body portion and being wider than the body portion; and

a lead line opposed to the non-display area and electrically connected to the broadened portion,

the broadened portion being opposed to the non-display area without being opposed to the sensor driving electrode.

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